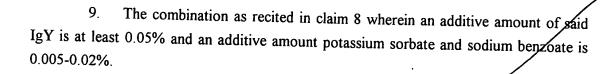
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What is Claimed is:

- A preparation method of immunoglobulin Y (IgY) against dental caries bacteria, including the steps of preparing streptococcus mutans antigens which are streptococcus streptococcus mutans type c and type d as antigen bacteria, immunizing hens, and extracting IgY by water dilution, DEAE-Sephadex A50 and Sephadex G200 chromatography.
- 2. The preparation method as recited in claim 1 wherein said streptococcus mutans type c and d as antigen bacteria are mixed by ratio 2:1.
- 3. The preparation method as recited in claim 1 wherein in the extracting step further includes the steps of extracting clued IgY by water dilution, adding 4-6 fold distilled water into even yolk by stirring, adjusting pH to 4.5-6.5, stand at 3-5°C, and centrifuging at high speed for 20 minutes
 - 4. The preparation method as recited in claim 1 wherein an eluant which is a phosphate buffer containing 0.03-0.1M of NaC1 is used for DEAE-Sephadex A50 chromatography.
- 5. The preparation method as recited in claim 1 wherein an eluant which is a phosphate buffer containing 0.07M of NaC1 is used for DEAE-Sephadex A50 chromatography.
- 6. The preparation method as recited in claim 1 wherein an eluant which is a phosphate buffer containing 0.05-0.2M of NaC1 is used for Sephadex G200 chromatography.
 - 7. The preparation method as recited in claim 1 wherein an eluant which is a phosphate buffer containing 0.1M of NaC1 is used for Sephadex G200 chromatography.

A combination against dental caries bacteria, comprising an IgY to dental caries bacteria and, at last, one of both potassium sorbate and sodium benzoate.



- 10. The combination as recited in claim 9 wherein an additive amount of said IgY is 0.05-0.2%.
 - 11. The combination as recited in claim 8 wherein said combination is packaged in pocket atomizer for spraying usage.
 - 12. The combination as recited in claim 8 wherein said combination is made in liquid form and packaged in a sucking bottle.

